

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1-20. (Canceled)

21. (Currently Amended) A storage system according to claim 25,

comprising:

~~—— a plurality of controllers controlling to transfer data to a plurality of storage regions;~~

~~—— a plurality of data lines coupled to said controllers and being used to transfer data from said controllers to said storage regions;~~

~~—— a plurality of disk drive units coupled to said data lines and having said storage regions; and~~

a display coupled to said first controllers and displaying information related to said storage system;

~~—— wherein a first controller of said controllers transfers data on a first data line of said plurality of data lines and transfers a command on a second data line of said plurality of data lines, if said storage system has a failure after transferring data on said second data line,~~

~~—— wherein said command is used to obtain an area of said failure, and~~

wherein said display displays said area of said failure.

22. (Currently Amended) A storage system according to claim 25~~24~~,
wherein:

said first controller transfers write data on said first data line and controls to divide said second data line into a plurality of parts and transfers said command to one part of said parts of said second data line, and

~~said display displays~~ said area of said failure is obtained after said second data line is divided.

23. (Currently Amended) A storage system according to claim 24~~25~~, further comprising:

a first housing having ~~a~~ one or more first disk drive units of said plurality of disk drive units and a first part of said second line, which coupled to said first disk drive units;

a second housing having ~~a~~ one or more second disk drive units of said plurality of disk drive units and a second part of said second line, which coupled to said second disk drive units; and

~~one or more of said~~ a plurality of controllers, which has said first controller, coupled to said first data line and said second data line;

wherein said first controller transfers write data on said first data line and controls to disconnect said second part of said second data line from said first part of

said second data line and transfers said command to said first part of said second data line, and

~~said display displays~~ said area of said failure is obtained after said second part of said second data line is disconnected.

24. (Currently Amended) A storage system according to claim 24~~25~~,
wherein:

said first data line is used to read/write data to one or more said disk drive units, if said area of said failure is on said second data line, and

said second data line is used to read/write data to said one or more said disk drive units, if said area of said failure is not on said second data line.

25. (Currently Amended) A storage system ~~according to claim 21, further~~
comprising:

a first controller coupled to a host computer ~~coupled to said controller; and~~
controlling to transfer data sent from said host computer to a plurality of storage
regions;

a plurality of data lines coupled to said first controller and being used to
transfer data from said first controller to said storage regions;

a plurality of disk drive units coupled to said plurality of data lines and having
said storage regions; and

wherein said first controller transfers data on a first data line of said data lines and transfers a command on a second data line of said data lines, if said storage system has a failure after transferring data on said second data line,

wherein said command is used to obtain an area of said failure, and

wherein said host computer sends a write command to said first controller and can receive acknowledgement of completion of said write command ~~during a check for~~ between occurrence of said failure and obtaining said area of said failure.

26. (Currently Amended) A storage system according to claim ~~24~~25,
wherein:

said command travels around on said second data line.

27. (Currently Amended) A storage system according to claim ~~24~~25,
wherein:

said command is relayed by one or more of said disk drive units coupled to said second data line, if said second data line does not have said failure.

28. (Currently Amended) A storage system according to claim ~~24~~25,
wherein:

said command is used to initialize said second data line.

29. (Currently Amended) A storage system according to claim ~~24~~25,

wherein:

said command is a Loop Initialization Primitive (LIP) command.

30. (Currently Amended) A storage system according to claim ~~24~~25,

wherein:

said second data line is a Fibre Channel Arbitrated Loop (FC-AL).

31. (Currently Amended) A storage system according to claim ~~24~~25,

wherein:

said area of said failure is located between said second data line and one of said plurality of disk drive units.

32. (Currently Amended) A storage system according to claim ~~24~~25,

wherein:

said area of said failure is in one of said plurality of disk drive units.

33. (Currently Amended) A storage system according to claim ~~24~~25, further

comprising:

a first housing having one or more first disk drive units of said plurality of disk drive units and a first part of said plurality of data lines; and

a second housing having one or more second disk drive units of said plurality of disk drive units and a second part of said plurality of data lines;

wherein said area of said failure is in one of said first housing and said second housing.

34. (Currently Amended) A storage system according to claim ~~24~~25, wherein:

said first data line is coupled to a second controller ~~of said plurality of controllers,~~

said second data line is coupled to said first controller ~~of said plurality of controllers,~~ and

said first controller controls sending of said command to said second data line.

35. (Currently Amended) A storage system according to claim ~~24~~25, wherein:
said plurality of disk drive units are coupled to said first data line and said second data line.

36. (Currently Amended) A storage system according to claim ~~24~~25, further comprising:

a first housing having ~~a~~ one or more first disk drive units of said plurality of disk drive units;

a second housing having ~~a~~ one or more second disk drive units of said plurality of disk drive units;

said first controller ~~of said controllers~~ being coupled to said second data line and a third data line of said plurality of data lines; and

a second controller ~~of said controllers~~ being coupled to said first data line and a fourth data line of said plurality of data lines;

wherein said first disk drive units are coupled to said first data line and said second data line, and

wherein said second disk drive units are coupled to said third data line and said fourth data line.

37. (Currently Amended) A storage system according to claim ~~24~~25, further comprising:

a first housing having ~~a~~ one or more first disk drive units and ~~a~~ one or more second disk drive units of said plurality of disk drive units;

a second housing having ~~a~~ one or more third disk drive units and ~~a~~ one or more fourth disk drive units of said plurality of disk drive units;

said first controller ~~of said controllers~~ being coupled to said second data line and a third data line of said plurality of data lines; and

a second controller ~~of said controllers~~ being coupled to said first data line and a fourth data line of said plurality of data lines;

wherein said first disk drive units are coupled to said first data line and said second data line,

wherein said second disk drive units are coupled to said third data line and said fourth data line,

wherein said third disk drive units are coupled to said first data line and said second data line, and

wherein said fourth disk drive units are coupled to said third data line, and said fourth data line.

38. (Currently Amended) A storage system, comprising:

one or more controllers coupled to a host computer and controlling to transfer data sent from said host computer to a plurality of storage regions;

a plurality of data lines coupled to said controllers and being used to transfer data from said controllers to said storage regions;

a plurality of disk drive units coupled to said plurality of data lines and having said storage regions; and

a display coupled to said controller and displaying information related to said storage system;

wherein a first controller of said controllers transfers a command on a second data line of said plurality of data lines and transfers data on a first data line of said plurality of data lines, if said storage system has a failure after transferring data on said second data line,

wherein said command travels around on said second data line, ~~and~~
wherein said display displays an area of said failure, and
wherein said host computer sends a write command to said first controller
and can receive acknowledgment of completion of said write command between
occurrence of said failure and displaying said area of said failure.

39. (Currently Amended) A storage system, comprising:
~~one or more a first controllers coupled to a host computer and~~ controlling to
transfer data sent from said host computer to a plurality of storage regions;
a plurality of data lines coupled to said first controllers and being used to
transfer data from said first controllers to said storage regions;
a plurality of disk drive units coupled to said plurality of data lines and having
said storage regions; and
a display coupled said first controller and displaying information related to said
storage system;
wherein ~~a said first controller of said controllers relays data on a first data line~~
~~of said plurality of data lines and relays a command on a second data line of said~~
plurality of data lines, if said storage system has a failure after relaying data on said
second data line,
wherein said command is used to initialize said second data line,
wherein said display displays an area of said failure, and

wherein said host computer sends a write command to said first controller and can receive acknowledgment of completion of said write command between occurrence of said failure and displaying said area of said failure.

40. (Currently Amended) A storage system, comprising:

- a plurality of controllers coupled to a host computer and controlling to transfer data sent from said host computer to a plurality of storage regions;
- a plurality of data lines coupled to said controllers and being used to transfer data from said controllers to said storage regions; and
- a plurality of disk drive units coupled to said plurality of data lines and having said storage regions;

wherein a first controller ~~of said controllers~~ transfers a command on a second data line of said plurality of data lines and transfers data on a first data line of said plurality of data lines, if said storage system has a failure after transferring data on said second data line,

- wherein said command is used to obtain an area of said failure, and

wherein said host computer sends a write command to said first controller and can receive acknowledgment of completion of said write command between occurrence of said failure and obtaining said area of said failure.

41. (Currently Amended) A storage system, comprising:

a ~~plurality of controllers~~ coupled to a host computer and controlling to transfer data sent from said host computer to a plurality of storage regions;

a plurality of data lines coupled to said controllers and being used to transfer data from said controllers to said storage regions;

a plurality of disk drive units coupled to said plurality of data lines and having said storage regions; and

~~— a display coupled said controller and displaying information related to said storage system;~~

wherein data are relayed by ~~a first controller of~~ said controllers on a first data line of said plurality of data lines and a command is relayed by ~~the first~~ said controller on a second data line of said plurality of data lines, if said storage system has a failure after relaying data on said second data line,

wherein said command is used to obtain an area of said failure, and

~~— wherein said display displays said area of said failure.~~

wherein said host computer sends a write command to said controller and can receive acknowledgment of completion of said write command between occurrence of said failure and obtaining said area of said failure.

42. (Currently Amended) A storage system, comprising:

one or more controllers coupled to a host computer and controlling to transfer data sent from said host computer to a plurality of storage regions;

a plurality of data lines coupled to said controllers and being used to transfer data from said controllers to said storage regions;

a plurality of disk drive units coupled to said plurality of data lines and having said storage regions; and

~~—— a display coupled to said controller and displaying information related to said storage system;~~

wherein said storage system performs the steps of:

transferring data on a first data line of said plurality of data lines coupled to a first controller of said controllers,

having a failure between said first data line and one of said disk drives after said transferring data on said first data line,

transferring a command on said first data line by said first controller and transferring data on a second data line of said plurality of data lines by said first controller after having said failure, said command being used to obtain a position of said failure, and

~~displaying said position of said failure on said display.~~

receiving a write command from said host computer to said first controller and sending acknowledgment of completion of said write command between occurrence of said failure and obtaining said position of said failure.